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PRIORITY	INFO	
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SUBJ: EVAL	UATION OF BLACK SHIELD MISSION BX6	709
i. CAM	ERA TYPE I (115A), UNIT E WAS USED	ON MISSION BYETAS
		ON MIDSION DAGING.
PROCESSING	WAS ACCOMPLISHED AT THE M	ISSION CONTAINS 1330
TITLED FRA	MEC	
TITEED FAM	1160.	
2. BOT	H CAMERAS OPERATED SATISFACTORILY	THROUGHOUT THE MISSION.
	AIGHT AND LEVEL FLIGHT, GROUND RES	

DURING STRAIGHT AND LEVEL FLIGHT, GROUND RESOLUTION (ONE BAR PLUS ONE SPACE) OF 18 INCHES WAS OBTAINED ON IMAGERY NEAR THE VERTICAL.

FOR ANALYTICAL PURPOSES, STRAIGHT AND LEVEL FLIGHT IS CONSIDERED AS ANY AREA WHERE THE CAMERA IS UNCAGED AND THE VEHICLE IS WITHIN THE CAMERA STABILIZATION LIMITS IN ROLL AND PITCH. THIS COMPRISES 42 PERCENT OF THE MISSION. IN AREAS OF COORDINATED TURNS AND VEHICLE MANEUVERING, THE IMAGE GUALITY REMAINS GOOD WITH MINIMAL SMEAR DUE TO VEHICLE MOTION. HOWEVER, IN A TURN, APPROXIMATELY 30 DEGREES OF SCAN OF ONE CAMERA IS GENERALLY UNUSABLE DUE TO IMAGING OF THE HORIZON. THE RESOLUTION (ONE BAR PLUS ONE SPACE) AT OBLIQUITY

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GROUP I EXECUTED FROM AUTO-HATIC DOWNGRADING AND DECLASSIFICATION

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ANGLES 30 TO 50 DEGREES (8-18 NAUTICAL MILES LATERAL DISTANCE) IS ESTIMATED TO BE TWO TO THREE FEET. AT THE HIGHEST OBLIQUITY ANGLES OF 50 TO 67 DEGREES (18 TO 30 NAUTICAL MILES LATERAL DISTANCE).

RESOLUTION IS ESTIMATED TO BE THREE TO FIVE FEET.

- 3. FRAMES 1-574 ARE EXPOSED AT 1/190 OF A SECOND; FRAMES 5751192 ARE EXPOSED AT 1/210 OF A SECOND; AND FRAMES 1193-1330 ARE
 EXPOSED AT 1/170 OF A SECOND. ALL FRAMES RECEIVED MAXIMUM DEVELOPMENT
 AND THE DIFFERENCE IN EXPOSURE CANNOT BE DETECTED. ALL EXPOSURES
 APPEAR ACCEPTABLE FOR THE EXISTING CONDITIONS (SUN ANGLE,
 REFLECTIVITY, ETC.) UNDER WHICH THE MISSION WAS FLOWN. IN COMPARING
 GROUND AREAS EXPOSED IN THE FORWARD AND AFT CAMERAS AT THE SAME TIME,
 THE AFT FRAMES CONSISTENTLY HAVE HEAVIER DENSITY.
- 4. NO PHOTOGRAPHY IS ACQUIRED DURING THE ASCENDING AND DESCENDING PORTIONS OF THE MISSION. THE UNCORRECTED BAROMETRIC ALTITUDE RANGES BETWEEN 73900 AND 81200 FEET. NO DATA REDUCTION PROBLEMS HAVE BEEN ENCOUNTERED DURING VEHICLE MANEUVERING.
- FRAMES THROUGHOUT THE MISSION, BUT THEY ARE MINIMAL AND NO DEGRADATION IS APPARENT. PLUS DENSITY SPOTS AND ASSOCIATED STREAKS ARE PRESENT INTERMITTENTLY THROUGHOUT THE MISSION. IN EVERY INSTANCE, THE AREA AFFECTED DOES NOT EXCEED 0.25 SQUARE INCH AND APPEARS TO BE AN EXPOSURE OF A FOREIGN SUBSTANCE. FOR EXAMPLE, SEE FRAMES 1058 AND 1062.
- 6. MINOR OVERLAP OF CONSECUTIVE FORWARD/AFT FRAMES IS PRESENT APPROXIMATELY SIX TIMES DURING VEHICLE MANEUVERING. THE OVERLAP DOES NOT EXCEED 1.2 INCHES AND IN ONLY ONE CASE EXCEEDS 0.5 INCH.

 IMAGE DEGRADATION IS APPARENT ONLY IN THE OVERLAPPED, DOUBLE-

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	EXPOSED AREAS. FOR EXAMPLE SEE FRAMES 279/284 AND 1131/1134.	THE			
poet of	DATA BLOCK ENCROACHES INTO THE AFT FORMAT IN A SMALL NUMBER				
\$	FRAMES. THE ENCROACHMENT DOES NOT EXCEED 0.5 INCH. FOR EXAMPLE				
	SEE FRAMES 262, 882, AND 1000.				
	7. PROGRAMMED V/H AND SENSED V/H ARE USED ON THIS MISSION	N .			
•	THE IMAGE QUALITY UNDER BOTH CONDITIONS IS SATISFACTORY. THE				
	TAPE AND FILM DATA BLOCK INDICATES THAT THE MISSION WAS FLOW				
	IN AN UNCAGED CONDITION UNTIL FRAME 1315. ONLY FIVE FORWARD F				
	ARE CAGED BETWEEN 1315 AND THE END OF THE MISSION (FRAME 1336				
	8. THE CORRELATION OF THE INS TAPE, FILM DATA BLOCK AND I				
	IS SATISFACTORY BY ELAPSED TIME. THE INS TAPE RECORDS ONE MINUTE				
**	HIGHER THAN THE FILM DATA BLOCK FOR BOTH LATITUDE AND LONGITU				
	INS TAPE DATA IS NOT AVAILABLE FOR FRAMES 565-573, 1185-1191,				
	1325-1329. THESE FRAMES ARE FROM CAMERA RUNDOWN AFTER TURNOFF				
	ARE CONSIDERED BONUS FRAMES.				
· ,	9. A TIME HISTORY OF EVENTS AFFECTING THE EXPLOITATION OF	THE			
•	MATERIAL BASED ON ELAPSED TIME FROM A/C TOUCHDOWN ARE:				
,	TIME				
egi.	HR-MIN				
V	Ø2 Ø1 RECEIPT OF INS TRANSMISSION AT	25X ²			
	06 31 RECEIPT OF D-VALUES AT	25X1			
25X1	24 36 MATERIAL ARRIVED AT				
	35 26 RECEIPT OF UNTITLED REPRODUCTIONS AT	25X ²			
•	40 46 FINAL FRAME EPHEMERIS COMPLETED AT	25X1			
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PAGE -4-

10. CLOUDS OBSCURE 45 PERCENT OF THE PHOTOGRAPHY. GROUND HAZE IS MINIMAL, AND IN CLOUD FREE AREAS GOOD QUALITY PHOTOGRAPHY IS AVAILABLE THROUGHOUT THE MISSION.

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